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| APPLICATION NO.                         | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
| 10/665,726                              | 09/18/2003  | Foster D. Hinshaw    | 3336.1008-002       | 4680             |
| 21005                                   | 7590        | 12/30/2008           | EXAMINER            |                  |
| HAMILTON, BROOK, SMITH & REYNOLDS, P.C. |             |                      | PHAM, KHANH B       |                  |
| 530 VIRGINIA ROAD                       |             |                      | ART UNIT            | PAPER NUMBER     |
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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

|                              |                                      |                                       |
|------------------------------|--------------------------------------|---------------------------------------|
| <b>Office Action Summary</b> | <b>Application No.</b><br>10/665,726 | <b>Applicant(s)</b><br>HINSHAW ET AL. |
|                              | <b>Examiner</b><br>Khanh B. Pham     | <b>Art Unit</b><br>2166               |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If no period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED. (35 U.S.C. § 133).

Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 30 October 2008.

2a) This action is FINAL.      2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-5 and 21-35 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

5) Claim(s) \_\_\_\_\_ is/are allowed.

6) Claim(s) 1-5 and 21-35 is/are rejected.

7) Claim(s) \_\_\_\_\_ is/are objected to.

8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) Notice of References Cited (PTO-892)  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  
 3) Information Disclosure Statement(s) (PTO-166/08)  
Paper No(s)/Mail Date 8/21/08

4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_

5) Notice of Informal Patent Application

6) Other: \_\_\_\_\_

## DETAILED ACTION

### *Continued Examination Under 37 CFR 1.114*

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114.
2. Applicant's submission filed on September 26, 2008 has been entered. Claims 1, 21 have been amended. Claims 1-5, 21-35 are pending.

### *Claim Rejections - 35 USC § 102*

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. **Claims 1-5, 21-35 are rejected under 35 U.S.C. 102(b) as being anticipated by Hejlsberg et al. (US 6,151,602 B1), hereinafter "Hejlsberg".**

**As per claim 1, Hejlsberg teaches a data engine (Fig. 1A) located in a programmable pipeline processor for processing non-field delineated, streaming,**

application level database records received from a mass storage device , the data engine comprising:

- "a data parser configured to recognize the record and field structure of the non-field delineated database records and parse non-field delineated database records into field-delineated data" at Col. 7 lines 3-60, Col. 8 lines 13-48, and Col. 21 lines 15-35;
- "filter logic configured to received the field delineated data from the data parser, and to filter the field delineated data by performing a field operation on the field delineated data" at Col.21 line 47 to Col. 22 line 25;
- "an output tuple generator configured to assemble filtered field delineated data into an output tuple" at Col. 25-35.

**As per claim 2**, Hejlsberg teaches the data engine of claim 1 wherein "the filter logic further comprises a programmable memory that serves as a substitution table for field delineated database record" at Col.21 lines 30-35 , and "wherein performing a field operation on the field delineated database records includes performing a field comparison on selected fields of the field delineated data" at Col. 21 lines 47-65.

**As per claim 3**, Hejlsberg teaches the data engine of claim 2, wherein "the substitute table includes a data string register" at Col. 21 lines 20-35.

**As per claim 4**, Hejlsberg teaches the data engine of claim 2, wherein "the substitute table includes a temporary register" at Col. 21 lines 20-35.

**As per claim 5**, Hejsberg teaches the data engine of claim 2, wherein "the field comparison is a character field comparison" at Col. 21 lines 45-65.

**As per claim 21**, Hejsberg teaches a method for processing non-field delineated streaming application level database records received in a programmable pipeline processor from a mass storage device (Fig. 1A) , the method comprising:

- "receiving the non-field delineated database record in a field buffer as an input data stream" at Col. 8 lines 13-48, and Col. 21 lines 15-35;
- "recognizing the record and field structure of the non-field delineated database records in the field buffer" at Col. 7 lines 30-60, Col. 21 lines 15-35;
- "separating the input data stream into field delineated data in the field buffer under instruction from an external central processing unit" at Col. 19 lines 45-65;
- "filtering the field delineated data by sending field delineated data from the field buffer to at least one logic unit that performs at least one field operation on the field delineated data" at Col. 21 lines 35-65; and
- "assembling the filtered field delineated data into an output tuple" at Col. 21 lines 25-35.

**As per claim 22**, Hejsberg teaches the data engine of claim 1, wherein "the output tuple assemble by the output tuple generator contains only selected data fields of the field delineated data" at Col. 21 lines 1-4.

**As per claim 23,** Hejlsberg teaches the data engine of claim 1, wherein "the filter logic is further configured to filter the field delineated data by flagging data for further processing" at Col. 21 lines 40-4 .

**As per claim 24,** Hejlsberg teaches the data engine of claim 1, further comprising "header storage configured to received header and control data of the field delineated data from the data parser and provide header data to the filter logic, wherein the filter logic is further configured to use header data to filter field delineated data" at Col. 8 lines 15-45.

**As per claim 25,** Hejlsberg teaches the data engine of claim 1, further comprising "an ID processing module configured to received header and control data of the field delineated data, to identify the validity of field delineated data by processing an ID field in the header data , and to provide the identified validity to the tuple generator" at Col. 22 lines 15-25.

**As per claim 26,** Hejlsberg teaches the data engine of claim 25, wherein "the ID field store a transaction ID associated with the field delineated data" at Col. 22 lines 15-25.

**As per claim 27,** Hejlsberg teaches the data engine of claim 21, wherein "filtering further comprises providing a substitute table for field delineated data; and

performing a field comparison on selected fields of the field delineated data" at Col. 21 lines 25-65.

**As per claim 28**, Hejlsberg teaches the method of claim 27, wherein "the substitute table includes a data-string register" at Col. 21 lines 25-65.

**As per claim 29**, Hejlsberg teaches the method of claim 27, wherein "the substitute table includes a temporary register" at Col. 21 lines 25-65.

**As per claim 30**, Hejlsberg teaches the method of claim 27, wherein "the field comparison is a character field comparison" at Col. 21 lines 25-65 .

**As per claim 31**, Hejlsberg teaches the method of claim 21, wherein "the output tuple contains only selected data fields of the field delineated data" at Col. 21 lines 1-4.

**As per claim 32**, Hejlsberg teaches the method of claim 21, wherein "filtering the field delineated data comprises: flagging data for further processing" at Col. 21 lines 25-65.

**As per claim 33**, Hejlsberg teaches the method of claim 21 further comprising "using header storage data of the field delineated data to separate field delineated data" at Col. 8 lines 15-45 .

**As per claim 34,** Hejlsberg teaches the method of claim 21 further comprising "identifying the validity of field delineated data by processing an ID field in the header data of the field delineated data, and assembling the filtered data into the output tuple based on the validity of the field delineated data" at Col. 22 lines 15-25.

**As per claim 35,** Hejlsberg teaches the method of claim 34, wherein the ID field stores a transaction ID associated with the field delineated data" at Col. 22 lines 15-25

***Response to Arguments***

5. Applicant's arguments with respect to claims 1-5, 21-35 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

Examiner's Note: Examiner has cited particular columns and line numbers in the references applied to the claims above for the convenience of the applicant. Although the specified citations are representative of the teachings of the art and are applied to specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested from the applicant in preparing responses, to fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed

by the Examiner.

In the case of amending the Claimed invention, Applicant is respectfully requested to indicate the portion(s) of the specification which dictate(s) the structure relied on for proper interpretation and also to verify and ascertain the metes and bounds of the claimed invention.

The prior art made of record, listed on form PTO-892, and not relied upon, if any, is considered pertinent to applicant's disclosure.

If a reference indicated as being mailed on PTO-FORM 892 has not been enclosed in this action, please contact Lisa Craney whose telephone number is **(571) 272-3574** for faster service.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh B. Pham whose telephone number is (571) 272-4116. The examiner can normally be reached on Monday through Friday 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on (571) 272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Khanh B. Pham/  
Primary Examiner  
Art Unit 2166

December 16, 2008